



# CUMENE HYDROPEROXIDE

UN 2116

Other Names: CHP  
alpha-Cumene hydroperoxide  
Cumyl hydroperoxide  
Dimethylbenzyl hydroperoxide

**WARNING!** • MAY SPONTANEOUSLY EXPLODE IF EXPOSED TO HEAT OR FIRE!  
• STRONG OXIDIZER! WILL INCREASE THE INTENSITY OF A FIRE! MAY CAUSE FIRE UPON CONTACT WITH COMBUSTIBLES!

## Hazards:

- Container may BLEVE or explode when exposed to fire
- Vapors in confined areas (e.g., tanks, sewers, buildings) may explode when exposed to fire
- Irritating to skin, eyes, nose and lungs

## Awareness and Operational Level Training

### Response:

- **DO NOT ATTEMPT RESCUE!**
- If the material is involved in or exposed to fire EVACUATE THE AREA IN ALL DIRECTIONS AND CALL FOR EXPERT HELP; THE PROBABILITY OF EXPLOSION IS VERY HIGH IN THIS SITUATION
- Stay upwind and uphill
- Determine the extent of the problem
- Isolate the area of release or fire and deny entry
- Remove all ignition sources
- Notify local health and fire officials and pollution control agencies
- If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated water

## Description:

- Colorless to pale yellow liquid
- Sharp irritating aromatic odor
- Slightly soluble in water
- Very flammable
- Highly explosive
- Freezes at 16° F

## Operational Level Training Response:

### RELEASE, NO FIRE:

- Stop the release if it can be done safely from a distance
- Prevent material and runoff water from entering sewers and waterways if it can be done safely well ahead of the release
- Ventilate confined area if it can be done without placing personnel at risk

### FIRE:

- Approach fire with extreme caution; consider letting fire burn
- Specially trained personnel operating from a safe distance can fight fires using foam or dry chemical if available in sufficient amounts or use fog streams to extinguish burning liquid. Keep exposures cool to protect against re-ignition. Do not direct straight streams into liquid.
- Cool exposed containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cooling streams are ineffective (venting sound increases in volume and pitch, tank discolors or shows any signs of deforming), withdraw immediately to a secure location

## First Aid:

- **DO NOT ATTEMPT RESCUE!**
- Provide Basic Life Support /CPR as needed
- Decontaminate the victim as follows:
  - ♦ Inhalation - remove the victim to fresh air and give oxygen if available
  - ♦ Skin - remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
  - ♦ Eye - rinse eyes with large volumes of water or saline for 15 minutes
  - ♦ Swallowed - do not make the victim vomit
- Seek medical attention

CAS: 80-15-9